

CLAIMS

What is claimed is:

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1. A wireless provisioning device, comprising:
a chassis;
at least one network card;
at least one wireless card;
at least one processor;
an operating system, the operating system operably configured in the chassis to control the at least one network card, the at least one wireless card and the at least one processor;
a packet-switched interface capable of receiving a multiplicity of inbound framed packet-data to provide inbound packets and transmitting a multiplicity of outbound framed packet-data comprising outbound packets;
a channeling controller, coupled to the packet-switched interface that channels the inbound packets based on the inbound address information and that constructs the outbound packets and channels the outbound packets with the outbound address information, the channeling controller capable of being effectively connected to at least one network via the operating system.

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2. The wireless provisioning device of claim 1, wherein the channeling controller routes the inbound packets.

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2. The wireless provisioning device of claim 2, wherein the channeling controller routes the outbound packets.

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2. The wireless provisioning device of claim 1, wherein the channeling controller bridges the inbound packets.

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2. The wireless provisioning device of claim 4, wherein the channeling controller bridges the outbound packets.

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3. The wireless provisioning device of claim 1, wherein the operating system of the wireless provisioning device is an open source UNIX based system.

1 *Sub* 7. The wireless provisioning device of claim 1, wherein the open
2 ~~source UNIX based system is LINUX.~~

1 *Sub* 8. The wireless provisioning device of claim 1, the wireless
2 ~~provisioning device further comprises a second processor.~~

1 9. The wireless provisioning device of claim 1, wherein the
2 wireless provisioning device further comprises a memory device and a storage
3 device.

1 *Sub* 10. A system, comprising:
2 ~~a plurality of wireless access points;~~
3 ~~at least one wireless provisioning device for receiving, transmitting,~~
4 ~~and directing data over a plurality of networks and capable of sustaining~~
5 ~~connectivity between the wireless access points and the wireless provisioning~~
6 ~~device, the wireless provisioning device comprising a chassis, at least one network~~
7 ~~card, at least one wireless card, at least one processor, and at least one operating~~
8 ~~system operably configured in the chassis and associated with at least one of the~~
9 ~~plurality of wireless access points for transmitting and receiving data between the~~
10 ~~wireless access point and a carrier structure and where the wireless provisioning~~
11 ~~device is capable of accommodating multiple connections back to the wireless access~~
12 ~~point without requiring rebooting before a new roaming member can be added to the~~
13 ~~system;~~

14 ~~a carrier structure communicably positioned between the wireless~~
15 ~~provisioning device and the plurality of wireless access points for transmitting and~~
16 ~~receiving data between the wireless provisioning device and the plurality of wireless~~
17 ~~access points by means of a secure connection; and~~

18 ~~a security authentication protocol capable of authenticating traffic as~~
19 ~~it passes through the carrier structure.~~

1 11. The system of claim 10 wherein the wireless provisioning
2 device further comprises a directory services member operatively connected to the
3 operating system thereof, which is suitable for maintaining a database directory that
4 ~~stores MAC addresses and billing profiles for those in the system.~~

5 12. The system of claim 11, wherein the wireless provisioning
6 device is capable of bridging.

1 13. The system of claim 12, wherein the wireless provisioning
2 device is capable of routing.

1 14. The system of claim 13, wherein the wireless provisioning
2 device is further capable of bridging.

1 15. The system of claim 11, wherein the carrier structure is a
2 suitable antenna for providing bridging solutions that afford the user the ability to
3 place wireless equipment in a wide area network.

1 16. The system of claim 10, wherein the security authentication
2 protocol is a radius authentication protocol.

1 17. The system of claim 10, wherein the wireless provisioning
2 device provides proxy service.

1 18. The system of claim 10, wherein the wireless provisioning
2 device provides firewall service.

1 19. The system of claim 10, wherein the carrier structure secure
2 ~~connection is a secure shell telnet connection.~~

1 20. The system of claim 10, wherein the system further comprises
2 at least one antenna.

1 21. The system of claim 10, wherein the at least one antenna is a
2 ~~2.4 Ghz antenna.~~

1 22. The system of claim 10, wherein the operating system of the
2 wireless provisioning device is an open source UNIX based system.

1 23. The system of claim 10, wherein the open source UNIX based
2 system is ~~LINUX~~.

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